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THE UNIVERSITY OF WASHINGTON

MEMO TO SCHOOLS

A Monthly Newsletter to Administrators, Teachers, and Advisers of Young People

UNIVERSITY OF ILLINOIS
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VOLUME XI, NUMBER 5 JANUARY, 1960

Seniors Must Apply For Freshman Scholarships By February 15 Deadline

High school seniors who are interested in freshman scholarships at the University of Washington must apply before February 15. Approximately two hundred scholarships are available to entering freshman students for the 1960-61 academic year.

Awards are generally made on the basis of scholarship, financial need, and service to the high school and community through extracurricular activities. Each applicant also is required to take the Washington Pre-College Differential Guidance Test.

Interested students may obtain information and application forms from their principal or guidance director. Applications, posters, and the *Handbook of Scholarships,* which describes in detail the awards available, were sent to all Washington high schools in November.

From the single application form, the Faculty Committee on Scholarships will consider each student for all scholarships for which he is eligible. Many scholarships are unrestricted and are awarded on a student's general worth. Others are intended for students entering specific fields of study. Awards range in size from Freshman Honor Awards of $50.00 each to large grants such as the General Motors College Scholarship which may be over $1,000. Many awards are the amount of resident tuition and fees, or $213. A few scholarships, such as the Helen Harrington Schiff awards, are renewable for a second year.

In the selection of scholarship recipients, the Committee will consider the results of the Washington Pre-College Differential Guidance Test. Test results do not have to be submitted with the application, however, as the Committee obtains them from the University of Washington Testing Bureau.

Students should note that the scholarship form is not the same as an application for admission to the University. Application for admission is made on a separate white form furnished by the principal's office and sent to the University's Office of Admissions. This is done after the completion of the seventh semester in the senior year.

For additional information about the University's scholarship program, students may write to James F. Bemis, Director of Student Financial Aids, Office of the Dean of Students, University of Washington, Seattle 5.

Inaugural Addresses Published By U Press

The addresses delivered on the occasion of the inauguration of University President Charles E. Odegaard have been published in book form by the University of Washington Press.

The illustrated book, *Man and Learning in Modern Society,* includes President Odegaard's inaugural address, the installation address of President Nathan M. Pusey of Harvard University, and the complete texts of papers given at the three pre-inaugural symposia. A complete program of inaugural events for the two days, November 6 and 7, 1958, also is included.

Residence Halls Costs Will Increase In Autumn Quarter

Board and room costs in the Men's and Women's Residence Halls at the University will increase effective Autumn Quarter, 1960. The change was approved by the Board of Regents at its December 18 meeting.

Cost of living in the Men's Residence Halls (Terry and Lander Halls) will be raised from $210 to $225 per quarter for double-room accommodations. The costs for the existing Women's Residence Halls (Austin, Blaine, Leary, and McKee Halls) will increase from $180 to $205 for double rooms, and from $220 to $240 for single rooms.

Per-quarter cost for the new Women's Residence Halls unit to open next fall was set at $225 for double rooms.

Living expenses in the Residence Halls provide for twenty meals a week.

H. S. Gymnastic Meet Set For Next Month

Junior and senior high school students interested in gymnastics may compete in the High School Invitational Gymnastic Meet, Saturday, February 27, beginning at 1:30 p.m. in Edmundson Pavilion on the University campus.

Events set for the meet include free calisthenics, side horse, horizontal bar, parallel bars, still rings, rope climb, tumbling, trampoline, and flying rings. An all-round event also will be held, including the five all-round events to be contested.

A trophy will be awarded to the team champion and individual trophies to first-, second-, and third-place winners in each event.

All students in junior or senior high school are eligible for the meet, and each individual may enter as many events as he wishes. However, schools may enter only three men to an event. The 1959 Official Rules of the N.C.A.A. will apply unless otherwise indicated.

Gymnastic coaches interested in the meet may obtain more information from Dr. Eric Hughes, Gymnastic Coach, University of Washington, Seattle 5.

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Summer Institutes For H.S., College Science Teachers

Three science institutes, one for high school physics teachers, and two in radiation biology for high school and college teachers of basic sciences, will be held next summer at the University of Washington.

This is the second consecutive year that the University has received National Science Foundation grants for these three institutes. Funds granted for this year's institutes total $100,000.

Each institute will last for eight weeks, June 20 through August 12. Application deadline for all three institutes is February 15.

Participants in each institute will receive a minimum stipend of $75 per week, plus allowances for dependents, tuition, and travel expenses. The institutes are open to teachers from throughout the nation, but a majority is expected from the western states and the Pacific Northwest.

Fifty high school physics teachers will be chosen for the physics institute, the purposes of which are to present a course of study in which major developments in physics are discussed and to assist high school physics teachers in stimulating further student interest in the field. Director of the institute is Dr. A. L. Sanderman.

Twenty high school science teachers and twenty college teachers of the basic sciences will be selected to participate in the two radiation biology institutes. These two institutes are designed to acquaint basic science teachers with this new science, to indicate how all basic sciences contribute to knowledge of radiation biology, and to increase the subject matter for teaching so that students will become familiar with the field. Director of both the high school and college institutes is Dr. Arthur D. Welander.

Inquiries about the physics institute should be sent to Dr. Sanderman, 209 Physics Hall; and about the radiation biology institutes to Dr. Welander, Laboratory of Radiation Biology; both at the University of Washington, Seattle 5.

Biochemistry–An Unlimited Career Field

(Editor's Note: We would like to express our appreciation to Prof. Milton P. Gordon of the Department of Biochemistry who prepared this article for the use of school counselors.)

The present generation of scientific investigators bears witness to a revolution that has taken place in the field of biological sciences. This progress has been the result of the application to biology of techniques from different fields of knowledge.

Many different disciplines, which have the common goal of understanding and controlling the basic mechanisms in living organisms, have amalgamated into the science known as biochemistry. Thus we find that biochemists are people of greatly diverse aptitudes and backgrounds. Physical and organic chemists, medical doctors, crystallographers, microbiologists, and physicists are found today among the people who staff biochemistry departments.

In addition to seeking further insight into basic biochemical problems, these men contribute to our understanding of diseases such as cancer, arteriosclerosis, and others, and of the mechanisms of heredity, photosynthesis, and virus reproduction. The great contribution of biochemistry to human welfare is strongly emphasized by the fact that 13 of the last 15 Nobel Prizes in medicine have been awarded to biochemists.

Open Career Field

Today, biochemistry is one of the most rapidly growing areas in the natural sciences. Opportunities are extensive for the well-trained individual; in recent years the number of available positions has far exceeded the number of qualified people. The types of available positions are: (a) academic positions, where teaching and research are of prime importance; (b) private research institutes, where research is the main pursuit; (c) large hospitals or medical centers, where research occupies most of the biochemist's time; (d) government laboratories (both state and federal), where biochemists perform research and some administration; and (e) industrial positions (primarily pharmaceutical and food and beverage industries), which include research and administrative duties.

Students with diverse scientific interests are attracted to biochemistry. Mathematicians will enjoy the problems concerned with the measurement and interpretation of physical phenomena associated with living cells, the construction of new instruments, and the use of computors. Persons with a flair for organic chemistry will find a challenge in the examination of the structures of complex materials isolated from biological sources. Biologists will enjoy studies of genetics and comparative biochemistry.

Broad Background Desirable

The undergraduate student who plans to do graduate work in biochemistry should obtain as broad a background as possible. This should include: (a) courses in organic and physical chemistry; (b) at least one year each of physics and mathematics; and (c) some biological sciences. The program leading to the doctorate usually requires three to four years. In graduate school, assistantships and fellowships are available for some students to provide for expenses.

For further information, write to the Biochemistry Department.

The University of Washington

memo to schools

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